09590
1108

#2

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RAW SEQUENCE LISTING DATE: 10/19/2001
PATENT APPLICATION: US/09/973,994 TIME: 11:11:36

Input Set : A:\76480023.app
Output Set: N:\CRF3\10192001\I973994.raw

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      3 <110> APPLICANT: CAIRNEY, JOHN
      4       XU, NANFIE
      6 <120> TITLE OF INVENTION: DIFFERENTIALLY-EXPRESSED CONIFER cDNAs, AND THEIR USE
      7       IN IMPROVING SOMATIC EMBRYOGENESIS
      9 <130> FILE REFERENCE: 7648.0023-00
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/973,994
C--> 12 <141> CURRENT FILING DATE: 2001-10-11
     14 <150> PRIOR APPLICATION NUMBER: 60/239,250
     15 <151> PRIOR FILING DATE: 2000-10-11
     17 <150> PRIOR APPLICATION NUMBER: 60/260,882
     18 <151> PRIOR FILING DATE: 2001-01-12
     20 <160> NUMBER OF SEQ ID NOS: 339
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     25 <211> LENGTH: 567
     26 <212> TYPE: DNA
     27 <213> ORGANISM: Pinus taeda
     29 <400> SEQUENCE: 1
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     31 tatcattgac aacagcgaaa aatgtggcgc aagaagtttc acatacaatt catggttaca 120
     32 aagatcacat accaggtgtt ggagcagatt cgatagatat tgaagatatg aagccaagga 180
     33 gtggagcagt tattgaaaag ggcacaaaaa aatttgccat ttacaaagat gaaaatgggc 240
     34 tgattcacaa atactcggca atatgcccac acatgaactg tattgtgaaa tggaatccta 300
     35 tagactcaac tttcgattgc ccctgccatg gttcaatgtt tgataatctg ggtcgatgca 360
     36 tcaatggacc tgccaaggcg gacctatttc ccgaagatta acgatagttg tttgtacatg 420
     37 taattatctt gatattgtat atatatgtat ttaaattata cagtacaata aatccatgtt 480
     38 tgcaggctat ttctgcttga taatttagct ccagatttat acataaccag tttatttggc 540
     39 tgtttttccc ctggcaaaaa aaaaaaa                                    567
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     45 <213> ORGANISM: Pinus taeda
     47 <400> SEQUENCE: 2
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     49 tgcagtggat atatacaatg tatatgtact ctgtctgttt ttctgttatt tgacggaaat 120
     50 aaaaacgcca tagcgacgga tgactgtaaa tccttaggga cggatgactg taaatcctta 180
     51 ggttggaaga ttacaaacga catatgggtc tttcaatttt cagatttctg taagacttac 240
     52 atttcaaaga ctgtttggat gggcaaaaaa aaaaaa                          276
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     60 <400> SEQUENCE: 3
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     63 atggggattc accagttttt gtagaatttg caatcatcgg atgacaattt caaagttttc 180
     64 tctaagtcac ccgcattgat atcgagaagc cttccatttt caattattta atatcagaaa 240
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PATENT APPLICATION: US/09/973,994 TIME: 11:11:36

Input Set : A:\76480023.app
Output Set: N:\CRF3\10192001\I973994.raw

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76 atgctcgagc gccgcagtgt gatgaattgc agaatcggct ggtactcacg ggctagagaa 180
77 aggcacaagc actttttgtc attttaggat cagaggcatt caggtatagg aagggtggct 240
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79 ctcccaagga cgaaatcagt tctttgtgcc ttctggtgat atcacttcaa acaaaaggca 360
80 acagttctgt gatttcatat ggtttgtcac tgaatatttt gttgcagatg ttctctacta 420
81 tttttttatct gctttcaagt gattatttgt tgattcccca tggatagtta tgctaatcag 480
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87 <211> LENGTH: 431
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93 ctgtttaacc taataataat acaaaggaag cattttaccc aactctttaa cgtaataata 120
94 ccaaagagtg gaatgcttta ttgaccagca agaccttgaa atttttataa ccaatgccca 180
95 tcaacagagc ctttcttaaa aaacgcaaag cccagctctg tcaccttatt agttagtata 240
96 aactgacatt cttccaagct tgtgtgcgca gaaacaataa agaacttcac cttggtttaa 300
97 agaacgtgcc atgaagaaaa cgtcccaaga aaaatgaaat ggctccttcg accattcagt 360
98 cctccctaga aaaatcaaaa gactccttcg accattaggt cctccaattg ggcatctaac 420
99 tacaagcggt c 431
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103 <211> LENGTH: 434
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105 <213> ORGANISM: Pinus taeda
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109 cattcaggta taggaagggg tggctcagat aggcagatgg atcggcattt tgcccagtca 120
110 tgaaacattt tatgcatgtt attgcctccc aaggacgaaa tcagttcttt gtgccttctg 180
111 gtgatatcac ttcaaacaaa aggcaacagt tctgtgattt catatggttt gtcactgaat 240
112 attttgttgc agatgttctc tactattttt tatctgcttt caagtgatta tttgttgatt 300
113 ccccatggat agttatgcta atcagttgca tttctcttgt accagtcaac aaacaaaaat 360
114 gcttgtagga atccattact atttattttc agacaggtaa acgtgtagct aattgttctg 420
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120 <212> TYPE: DNA
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Input Set : **A:\76480023.app**
Output Set: **N:\CRF3\10192001\I973994.raw**

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126 ggctagagaa aaggcacaag cacttcttcg tcattttagg atcagaggca ttcaggtata 180
127 ggaagggtgg tcagataggc agatggatcg gcattttgcc cagtcatgaa acattttatg 240
128 catgttattg cctcccaagg acgaaatcag ttctttgtgc cttctggtga tatcacttca 300
129 aacaaaaggc aacagttctg tgatttcata tggtttgtca ctgaatattt tgttgcagat 360
130 gttctctact atttttttatc tgctttcaag tgattatttg ttgattcccc atggatagtt 420
131 atgctaatca gttgcatttc tcttgtacca gtcaacaaac aaaaatgctt gtaggaatcc 480
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140 <400> SEQUENCE: 8
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142 gatcagagaa gagcaggaaa tgagtccacc tgaggaatcc tggagacaga aacaggggcg 120
143 tttaatggag tttgaggcag ggatggccta tgataaacct gaaaatgccg gtgcaggtaa 180
144 tgagaatttg ccagagtttt gctctctttc aaatgagtac tcgatgttat tgaaagatcc 240
145 atggagttgg gaggatagca ctggtttcgg aatccgaagc ttagctgctg tcaggaagca 300
146 gtcttgtata ttggactatc tccatgattc tgctgtagat aatcgctgtg aaaaggattt 360
147 tgccgagcag cacaaggtac aggaagagga ggattgtttg agaaggtctc tttttgaagc 420
148 cacagatgat cagctctgga ggcttcagag tctttgcagg atacagaagg tctgtttcct 480
149 ctggattccg tgggtagcca tgattgcacg accttgttgc aggatgagag cattgttcag 540
150 ggcgctgctt cttacttcag aatttgggaa caggatgatg gtcacaagga tgccaaaatt 600
151 catgaagatg gcattggttt tgtgtatggg agtgggatct cggattggat tcggagggct 660
152 ccctcgaatc aatctgagtt ttctgaatct gttgaatttg aaagctctat gttttcactg 720
153 taatttgggt ctttttaatt tcttcctatg taatttgggt gtttctaatt tcttccttca 780
154 gcaaaaaaaa aaaa                                                  794
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165 atgttgctgg cagtagagct ggagatgtgc tgtctctttg gtgtcattag cacagaagct 180
166 attggagaaa tgattattat ctgtttgata acttctagag cattttctg cttccaattc 240
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176 <400> SEQUENCE: 10
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179 gtagagctgg agatgtgctg tctctttggg tcattagcac agaagctatt ggagaaatga 180
180 ttatggtatt ccaccatatc caggtaaaca agggaaaaca gagctcagct tctagtatgt 240
181 tgtatgccct gctctgtctg ttttctttga tctttgatgc caagcaagtt gaatgtgatc 300
182 actaaatgtt gctggcagta gagctggaga tgtgctgtct ctttggtgtc attagcacag 360
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Input Set : **A:\76480023.app**
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184 aattccacaa ggtggaaagt gcaaggatgt ttactttctt aaactgtact tgccttgtat 480
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189 <211> LENGTH: 331
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195 tgccctgctc tgtctgtttt ctttgatctt tgatgccaag caagttgaat gtgatcacta 120
196 aatgttgctg gcagtagagc tggagatgtg ctgtctcttt ggtgtcatta gcacagaagc 180
197 tattggagaa atgattatta tctgttacat aacttataga gcatttttct gcttccaatt 240
198 ccacaaggtg gaaagtgcaa ggatgtttac tttcttaaac tgtacttgcc ttgtatttga 300
199 tgatgtaagg ttgtgtggca aaaaaaaaaa a 331
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210 ggtactcggc ctttgttgga atgtagtctg gttaatttat atgtatatgt aaccttgggg 180
211 tttcgagccc agttctctgt tcttcttgaa atgaaatgcg atttgttcta aaaaaaaaaa 240
212 a 241
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216 <211> LENGTH: 247
217 <212> TYPE: DNA
218 <213> ORGANISM: Pinus taeda
220 <400> SEQUENCE: 13
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223 ggatgattgt tgtagtcctg tcattggttg gacaattttc atcatcctaa agatccaaga 180
224 attcatgtgg caagaaactt taataaagtc aaatataatc cgatgacgta accctaaaaa 240
225 aaaaaaa 247
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236 tgtatctgct cacttcggcg tatatatgta atatgttgct tcttcagaga gatgaacttc 180
237 cccctaaaaa aaaaaaa 197
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256 <400> SEQUENCE: 16
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258 ggggtgactg agaactcaga cacagacgac aagtgatcat tcgggccaga tttttgttga 120
259 gagagttgta gtgtgtaatt gattcatttc atacatttga tatgcaagcc tgtacaatag 180
260 cctgtgactg ttaagggcat tcttttgtct ccctgttgct atttgggttt ccggtgtgtt 240
261 cattttcact tatttttgtg ttttagctgg aagaatttga gagggtagaa ttgtgtcatc 300
262 gctatggctt gtgcatgact catgagccag cagttgaaac ttttatttat taagttataa 360
263 tactatgtct tgtcaattct caataaaaga tattttatgc tgttgggcag catctaaaat 420
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270 <213> ORGANISM: Pinus taeda
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275 ttttaggcat ggtgcgcgat gagctgatag cgatgatgaa gaccaagacc accaaaggaa 180
276 gattcttcag agcaaaagct acggagacag aaccagagga ctcaaagccg gaatccattg 240
277 gtgaggtacc tgcaaatgtg tgatggacta actaagaagg ctccttgaga ggacccatta 300
278 agcacagtgt ttttaagtcc caaattctgt tgcaattccg ttgaaaatca tttttacgat 360
279 tttaggtatg atgtgtgcaa ttttaaagtt ggaattattg tgggcaaagg ctataagtga 420
280 ttgtctaatc catttaattt attatctttt gactaagagc atatctaggc tggaagaaat 480
281 tagggcacat taatgtaagt tttgaatttg aacattctgg gttttgcaat gcaaaacacc 540
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292 tttctgtcca ccccacttta gagtctcagt ttgtaaagca ctccctagga gctaaactca 120
293 tttccaatgg attaaagcac tccataggag ctaaactcat ttccaaggga tttttgtcca 180
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304 aggcggccag aaagctttaa aatgctaagc ctacaggtaa tattcacaac tgcattaagc 120
305 accccgcttc ctagttctga agaagccaga aagctttaaa atgctaagcc tacaggtaat 180
306 attcacaact gcattaagca ccccgcttcc tagtaggcta gtactaggac taggaccgca 240
307 ttaccagttc ccttatcttc tactcatcct ctacaggaaa aactatgact aaaactgcat 300
308 taccagttcc cttatcttct caactcgtcc tctacaaaaa aaaaaaa 347

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 10/19/2001
PATENT APPLICATION: **US/09/973,994** TIME: 11:11:37

Input Set : **A:\76480023.app**
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L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:1209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:1210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:1290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:1291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:1456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
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L:1817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
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L:1819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
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L:5663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:328
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L:5705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329
L:5706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329

VERIFICATION SUMMARY DATE: 10/19/2001
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Input Set : **A:\76480023.app**
Output Set: **N:\CRF3\10192001\I973994.raw**

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L:5816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:331